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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,921	01/25/2002	Eiichi Takata	36856.617	7243
7590 02/04/2004			EXAMINER	
Joseph R. Keating, Esq.			KIM, PAUL D	
KEATING & BENNETT, LLP Suite 312			ART UNIT	PAPER NUMBER
				PAPER NUMBER
10400 Eaton Place			3729	
Fairfax, VA 2	22030		DATE MAILED: 02/04/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)	
•	10/054,921	TAKATA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Paul D Kim	3729	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repleted in the provision of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statuted and the period by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may a reply be to oly within the statutory minimum of thirty (30) da I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on	<u>_</u> .		
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under			
Disposition of Claims			
4) Claim(s) 6-12 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 6-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/a	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is old	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. §§ 119 and 120			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority documents. Copies of the certified copies of the priority application from the International Bureats * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the first 37 CFR 1.78.	ats have been received. Its have been received in Application of the certified copies not received to the certified copies not receive priority under 35 U.S.C. § 1190 or the sentence of the specification of the specifi	tion No. <u>09/546,862</u> . red in this National Stage ed. (e) (to a provisional application) or in an Application Data Sheet.	
 a) The translation of the foreign language pr 14) Acknowledgment is made of a claim for domes reference was included in the first sentence of t 	tic priority under 35 U.S.C. §§ 120	and/or 121 since a specific	
Attachment(s)	_		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)	

DETAILED ACTION

Specification

1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

The phrase "further comprising the step of ion bombarding...after the step of packaging" recited in lines 1-3 of claim 9 does not disclose in the specification.

Claim Objections

2. Claims 7 and 10-12 are objected to because of the following informalities:

Re. Claim 7: The phrase "the thickness of said interdigital transducer" recited in lines 1-2 should be changed to --a thickness of said at least one interdigital transducer--.

Re. Claim 10: The phrase "the thickness of said metal film" recited in lines 1-2 should be changed to --a thickness of said metal film--.

Re. Claim 12: The phrase "at least one of…" recited in line 3 is objected because when materials recited in a claim are so related as to constitute a proper **Markush group**, they may be recited in the conventional manner, or alternatively. For example, if "wherein R is a material selected from the group consisting of A, B, C and D" is a proper limitation, then "wherein R is A, B, C or D" shall also be considered proper (see MPEP 2173.05(h)).

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The phrase "said interdigital transducers" recited in lines 3-4 should be changed to --said at least one of the interdigital transducers--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 6-12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

According to the limitation recited in lines 4-5 of claim 6, the metal film is disposed on the piezoelectric body. It is unclear as to what happens to this metal film in the claimed invention. It is also unclear why the metal film is needed in the claimed invention. Also, the recitations in claims 10 and 11 are unclear as to why these extra steps such as adjusting thickness of the metal film and adjusting thickness by etching using a wet etchant are performed. There is no further limitation how to use the metal film in the claimed invention.

Allowable Subject Matter

5. Claims 6-12 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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6. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to disclose the claimed invention such as "simultaneously etching the at least one interdigital transducer and the piezoelectric body" recited in claim 6.

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7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Koshido (US PAT. 6,358,429), Koshido (US PAT. 6,204,190), and Ichigawa et al. (US PAT. 5,996,199) are cited to further show the state of the art with respect to method of manufacturing a surface acoustic wave device.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D Kim whose telephone number is 703-308-8356. The examiner can normally be reached on Tuesday-Friday between 8:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-5648.

'*'Yaul D. Kim* Examiner

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